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CHAPTER REPORTS

THE MISSOURI CHAPTER

1. The year 1916-1917 was a most successful one for this chapter. Seventy-seven members were on the chapter roll during the year. Nine meetings were held during the year, six of which were strictly scientific in nature. Two social meetings were held, the first being an informal dinner on October 20, 1916, which was enjoyed by forty-two of the members, and the second the annual initiation meeting on May 11, 1917. The annual business meeting on April 20, 1917, at which the new members given below were elected, was an important one for the chapter. Extensive revisions in the By-laws of the chapter were made which will greatly facilitate the transaction of business in the future. The most important business which came before the chapter during the year was the adoption of the provision for the election of associate members. The proposition brought forth considerable discussion particularly because the chapter voted in 1914 to discontinue the election of undergraduates. The By-laws providing for associate members were finally adopted, however, at a business meeting held immediately following the annual initiation on May 11, 1917. The large majority of the chapter which is in favor of this new class of membership indicates that it will receive an enthusiastic trial during the present year.

The scientific meetings held by the chapter during the year were as follows:

November 15, 1916, The Ideals of the Scientist, public lecture by Professor John M. Coulter, of the University of Chicago. November 16, Inheritance and Response, address before the chapter by Professor John M. Coulter of the University of Chicago. December 15, 1916, The Absorption and Utilization of Organic Carbon by Green Plants, address before the chapter by Professor Lewis Knudson of Cornell University, a former member of Missouri chapter who was spending the semester at the University of Missouri. February 10, 1917, Recent Studies on the Physiology of the Stomach, public lecture, which was illustrated by lantern slides by Professor A. J. Carlson of the University of Chicago.

At a scientific meeting of the chapter, March 16, 1917, the following papers were presented: Barite Deposits of Missouri by W. A. Tarr, Ph.D., Assistant Professor of Geology, University

of Missouri; The Meat Proteins, by P. F. Trowbridge, Ph.D., Professor of Agricultural Chemistry, University of Missouri; Some Effects of Quarter Century Cropping on Soil, by M. F. Miller, Professor of Soils, University of Missouri; Adaptation of Aquatic Insects, by G. S. Dodds, Ph.D., Assistant Professor of Zoology, University of Missouri.

At a scientific meeting of the chapter, May 18, 1917, the following papers were presented: Animal and Plant Carotinoids by L. S. Palmer, Ph.D., Assistant Professor of Dairy Chemistry, University of Missouri. Hessian Fly Investigations by Leonard Haseman Ph.D., Associate Professor of Entomology, University of Missouri. Experiments in Human Over-Nutrition, by Addison Gulick, Assistant Professor of Physiology, University of Missouri.

The new members of the chapter were elected on April 20, 1917, and the basis of the election in each case, is given below:

FACULTY

JOHN WESLEY MARDEN, B.S., M.S., D.Sc.

Assistant Professor Chemistry

A Study of the Methods for Extraction by Means of Immiscible Solvents from the Point of View of the Distribution Coefficients. *Journal of Industrial and Engineering Chemistry*, 6, 315 (1914); 6, 928 (1914).

GRADUATE STUDENTS

SAM TILDEN BRATTON, B.S. in Ed. *Geology*

Some Geographical Influences in Location of Type Railroads in Missouri, thesis for A.M.

EDITH ELEANOR CUMMINGS, A.B. *Astronomy*

Eclipsing Binary TV Cassiopeiae, thesis for A.M.

LEON CHAPMAN DENNIS, B.S. *Horticulture*

Winter Structure and Development of Apple Buds, thesis for A.M.

ALBERT HAROLD HOLLINGER, B.S. *Entomology*

Scale Insects of Missouri, thesis for A.M.

WILLIAM POLK JESSE, M.E., A.B. *Physics*

The Effect of Density on the Refractive Indices of Gases, thesis for A.M.

WARD WESLEY KELLEY, A.B. *Geology*

The Determination of the Rate of Motion of Water and Oil Through Various Kinds of Rocks, thesis for A.M.

WARD HANSON SACHS, B.S. *Agronomy*

Effect of Oxidation of Sulphur in Soils on the Solubility of Phosphorus, thesis for A.M.

- LEWIS FRANCIS THOMAS, B.S. *Geology*
 The Geography of Greene County, Missouri, thesis for A.M.
- WALTER EUGENE THRUN, A.B., A.M. *Agricultural Chemistry*
 Determination of Various Forms of Nitrogen in Bovine Flesh, Including
 Products of Hydrolysis of Some of the Proteins, thesis for Ph.D.
- LEON WALTON WING, JR., B.S. in Agr. *Dairying*
 Milk Substitutes for Calf Raising, thesis for A.M.
- LEROY S. PALMER, *Secretary*.

THE SYRACUSE CHAPTER

During the academic year 1916-17, eight meetings were held, five of which were regular meetings both for business and the presentation of papers; the rest were scientific only, at which addresses were given to the public. The list of meetings with papers and dates is as follows:

October 26, 1916, regular meeting, report by Prof. T. C. Hopkins and Dr. B. W. Clark, on A Geological Trip in the Rockies.

November 24, 1916, open meeting, lecture by Prof. C. W. Hargitt, Health and Disease in Terms of Biology.

December 1, 1916, open meeting, lecture by Prof. John C. Adendorff of the L. C. Smith College of Applied Science, Diamond Mining in South Africa.

December 8, 1916, regular meeting, report by Dr. J. M. Johlin on the New York Meeting of the American Chemical Society, also on The National Exposition of Chemical Industries; also a report by Prof. E. N. Pattee on Some Important Problems in Industrial Chemistry.

December 15, 1916, open meeting, conjointly with the Syracuse Section of the American Chemical Society, lecture by H. E. Howe on The Development of the Chemical Industries of the Canadian Northwest.

February 9, 1917, regular meeting, report by Dr. H. S. Steensland, Dr. H. G. Weiskotten and Dr. R. K. Brewer, on The Action of Benzol on Animals.

March 23, 1917, regular meeting, report by Dr. O. W. H. Mitchell on The Work of the Bacteriological Laboratory of the City of Syracuse on Pneumonia and Diphtheria Organisms; also Studies on the Growth of White Pine, by Dr. H. P. Brown; also Geostatic Studies on Root Growth, by Dr. L. C. Petry.

May 11, 1917, regular meeting, annual election of officers, annual reports of officers, research reports by members elected during the year.

During the year, one member of the faculty affiliated with the chapter, and three members of the faculty and five graduate students were elected and initiated as follows:

AFFILIATED

CHARLES L. BRIGHTMAN, Ph.D. *Instructor in Physics*
 Affiliated from Clark University Chapter.

FACULTY

JOHN LEWIS JONES, Ph.D. (Yale, 1911) *Instructor in Mathematics*

The Number Concept, Thesis for Ph.D.

CARL DOWNEY LARUE, A.B. (Michigan, 1914) *Instructor in Botany*

Matroclinic Inheritance in Mutation Crosses of *Oenothera Reynoldsii*, joint authorship with H. H. Bartlett, *Am. Jour. Botany*, Vol. IV, No. 3 and other papers.

WALTER ALBERT PATRICK, Ph.D. (Goettingen, 1914) *Instructor in Chemistry*

Electrical Conductivity of Alcoholic Iodine Solutions, and Solutions of Platinum Iodide, *Jour. Am. Chem. Soc.* and other papers.

GRADUATE STUDENTS

ALEXANDER JESSE MACNAB, B.S. (Syracuse, 1916) *Forest Entomology*

A Study of the Insects Attacking the White Pine, thesis for M.F.

ANNE E. McKECHNIE, A.B. (Western College for Women, 1914) *Zoology*

The Taxonomic Values of Nematocysts in Coelenterata, thesis for A.M.

JAMES RODENBERG SLATER, B.Litt. (Rutgers, 1913) *Zoology*

The Urodeles of Onondaga County, New York, thesis for A.M.

HARRY HUTCHINSON STAGE, B.S. (Syracuse, 1916) *Entomology*

A Study of the Insect Fauna of the American Larch, thesis for M.S.

EDWIN SANDERS VANDEUSEN, A.B. (Syracuse, 1915) *Mineralogy*

The Terranes of East Montpelier, Vermont, thesis for M.S.

H. A. CLARK, *Secretary.*